

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD**  
**CIN No- U40109MH2005SGC153646**

**Executive Engineer Telecom Division, Aurangabad**  
**wing No 3, Ground floor, New Administrative Building**  
**132kV Harsool Premises, Sillod Road**  
**Aurangabad-431008**  
**0240-2348351(O), 2331097**  
**E-mail Id :eeabdtel@gmail.com, ee2510@mahatransco.in**

**No.EE/ABD/TCD/TS/ 12/**

**Date: 14.01.2019**

**E-ENQUIRY EXTENSION**

**Ref: No.EE/ABD/TCD/TS/ 738/Date: 28.12.2018**

Sealed and superscribed quotations were invited for Supply of Line matching units at Telecom S/Dn Parli vide enquiry under reference. **The Extension is hereby given for submission of sealed Quotations up to 21.01.2019.**

The quotation giving full details of your terms and conditions for delivery, validity of the rate, should reach this office on or before **21.01.2019**. You are requested to quote your reasonable rates with due consideration of the following points.

- 1) The rates quoted shall be exclusive of all taxes and delivery to Additional Executive Engineer Telecom S/Dn (Address: Old Power House, Opposite EHV O&M Circle Parli) Taxes should be quoted extra.
- 2) GST registration & PAN number should be mentioned on quotation.
- 3) Material shall be warranted for minimum 1 year.
- 4) Material shall be provided as per Schedule 'A' & 'B'
- 5) The rates quoted shall be on firm quotation basis.
- 6) The envelope should be super scribed as "QUOTATION FOR SUPPLY OF LINE MATCHING UNIT".
- 7) **Material to be as per approved drawings of MSETCL standards.**
- 8) The documentation containing details of Line Matching units of manufacturer to be supplied should be enclosed along with quotation such as make, type/model, specifications etc.
- 9) The right to reject any or all the quotations and Enquiry is reserved by the undersigned.
- 10) Payment will be effected in reasonable time after supply of material in good condition & submission of bills.
- 11) Agency shall pay 10% of order value as security Deposit. This Security Deposit will be paid after completion of warrantee period.
- 12) Jurisdiction: All quotation disputes or difference as under out of or in connection with the contract if concluded shall be subject to the exclusive jurisdiction of the Aurangabad Court.

**Executive Engineer**  
**Telecom Division Aurangabad**

Encl: Schedule 'A' & Schedule 'B' typed on overleaf.

Copy to – Notice Board & MSETCL website



**MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD**

**SCHEDULE 'A'**

**Name of Work: Supply of Line matching Unit for 220kV Parli Osmanabad line**

<b>Sr No</b>	<b>Name</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Amount</b>
1	Line matching unit 200W ( A & B unit)	2 Sets		
	Total			
	GST 18%			
	Grand Total			
			<b>Round off</b>	

Note: -

1. Taxes shall be quoted separately otherwise it will be assumed as inclusive of taxes.
2. The documentation containing details of material of manufacturer to be supplied should be enclosed along with quotation such as make, type/model, specifications, etc.

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## Schedule: B

### Specifications: -

High degree of modularity Compact unit with variable complement of modules – Maximum personnel protection  
Insulated enclosure and special design features minimize electrical hazards – Programmable One high-pass version for different system parameters, programmable on site – Weather-proof and tropicalized Corrosion inhibited by fiberglass reinforced polyester enclosure – High carrier power rating Up to 1000 W PEP – Simple integration in PLC system

#### High-pass filter A Type

Nominal impedance PLC equipment-side Z2 75  $\Omega$  and 125  $\Omega$ , unbalanced

Nominal impedance transmission line-side Z1 240/320  $\Omega$

Range of coupling capacitance 1.5 to 13 nF

Composite loss within passband  $\leq$  1.0 dB typical

Return loss within passband  $\geq$  12 dB typical

#### Band-pass filter B Type

Nominal impedance PLC equipment side Z2 as desired

Nominal impedance transmission line side Z1 as desired

Range of coupling capacitance min. 0.5 nF

Composite loss within passband  $\leq$  1.0 dB typical

Return loss within passband  $\geq$  12 dB typical

#### Common filter properties

Average continuous power (frequency dependent) 200 W typical

Nominal peak power P.E.P. at 50 kHz  $\leq$  400 W

at 100 kHz  $\leq$  1000 W

Non-linear distortion 2-tone test P.E.P. 400 W, f1 = 54 kHz, f2 = 66 kHz

Intermodulation 3rd & 5th order  $\geq$  80 dB

Harmonic distortion  $\geq$  80 dB

Power frequency test voltage

Transformer (primary/secondary) 10 kVrms, 1 min

Hybrid (windings/windings) 5 kVrms, 1 min

Impulse test voltage wave shape 1.2/50  $\mu$ s

Transformer (input line-side to ground) 10 kVpeak

Hybrid (inputs against ground) 5 kVpeak

Crossover attenuation of hybrid A1AC  $\geq$  20 dB

#### Drain coil

High-pass A9BS/A9BT

Inductivity adjustable depending on selected programming 0.2 to 0.7 mH

Impedance at mains frequency  $\leq$  1.5  $\Omega$

Band-pass A9BP/A9BR

Inductivity 40 mH

Impedance at mains frequency  $\leq$  20  $\Omega$

Common features

Continuous current  $\leq$  1.5 Arms

Short-time current  $\leq$  50 A, 0.2 s

#### Earthing switch

Rated current 300 Arms continuously

Short-time current 16 kA, 1 s

#### Surge arrester

Rated voltage 660 V

Max. 100% impulse spark-over voltage (1.2/50  $\mu$ s) 3300 Vpeak

Rated discharge current (8/20  $\mu$ s) 5 kApeak

#### Connections

Equipment side

Terminal blocks for max. cross section 4 mm<sup>2</sup>

4 cable glands (2 x M20 and 2 x M25) for cable diameter 3 -12 mm (M20) and 5 -17 mm (M25)

Line side and earthing

Connecting bolts with metric threading M10

Permissible ambient temperature range - 40  $^{\circ}$ C to + 70  $^{\circ}$ C

#### Weight (per unit)

A type approx. 9 kg (20 lbs)

B Type approx. 10 kg (22 lbs)

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